|  | Index of Claims  |               |          |               |               |          |           |          |          |           |            |                              |          | Application No. |                   |          |               |           |          |           |               |              |       | Applicant(s) |                 |               |                |           |           |           |          |              |           |  |  |
|--|--|---------------|----------|---------------|---------------|----------|-----------|----------|----------|-----------|------------|------------------------------|----------|-----------------|-------------------|----------|---------------|-----------|----------|-----------|---------------|--------------|-------|--------------|-----------------|---------------|----------------|-----------|-----------|-----------|----------|--------------|-----------|--|--|
|  |  |               |          |               |               |          |           |          |          |           |            |                              |          | 11              | 10/614,979        |          |               |           |          |           |               |              |       |              |                 | KRAUSE ET AL. |                |           |           |           |          |              |           |  |  |
|  |  |               |          |               |               |          |           |          |          |           |            |                              | Examiner |                 |                   |          |               |           |          |           |               |              |       | Art Unit     |                 |               |                |           |           |           |          | _            |           |  |  |
|  |  |               |          |               |               |          |           |          |          |           |            |                              |          |                 |                   |          |               |           |          |           |               |              |       |              |                 |               |                |           |           |           |          |              |           |  |  |
|  | 1 100001 11011 00110 01110 11011 11011 11011 11011 11011 11011 |               |          |               |               |          |           |          |          |           |            |                              |          |                 | James L Habermehl |          |               |           |          |           |               |              |       |              | 26              | 351           |                |           |           | L         |          |              |           |  |  |
|  |  |               |          |               |               |          | $\neg$    |          | 1        |           | - :        |                              |          |                 |                   |          |               |           |          |           |               |              |       |              |                 | <del></del>   |                |           |           |           |          |              |           |  |  |
|  |  |               | <b>√</b> | R             | Rejected      |          |           |          |          | _         | (1         | (Through numera<br>Cancelled |          |                 |                   | al)      |               |           | N        | Non-Elect |               |              | ed    |              | A               | Appeal        |                |           |           |           |          |              |           |  |  |
|  |  |               |          |               |               |          |           |          |          | Caricened |            |                              |          |                 |                   |          | -             |           |          |           |               |              |       |              |                 |               |                |           |           |           |          |              |           |  |  |
|  |  |               | =        | Allowed       |               |          | d         |          |          | ÷         | Restricted |                              |          | d               |                   |          |               |           | Int      | erfe      | ren           | се           |       |              |                 | Ob            | jec            | cte       | d         |           |          |              |           |  |  |
|  |  |               | Ш        |               |               |          |           |          | -        |           |            | <del></del>                  |          |                 |                   |          |               |           |          |           |               |              |       |              | Ш               |               |                |           |           |           |          |              |           |  |  |
|  | Claim  |               |          | Dat           |               |          |           | е        |          |           | Claim      |                              |          |                 | D                 | ate      | )             |           |          | C         |               | aim          |       | Date         |                 |               |                |           |           |           |          |              |           |  |  |
|  | ı  | al            | 5        |               |               |          |           |          |          |           |            | _                            | a        |                 |                   |          |               |           |          |           |               | ] [          | 1     | a            |                 |               |                |           |           |           |          |              |           |  |  |
|  | Final  | Original      | 2/15/05  |               |               |          |           |          |          |           |            | Final                        | Original |                 |                   |          |               |           |          |           |               | H            | Final | Original     |                 |               | $\cdot$        | ŀ         |           |           |          |              |           |  |  |
|  | 1  | 0             | 2        |               |               |          |           |          |          |           |            |                              |          |                 |                   |          |               |           |          |           |               |              |       |              |                 |               | - (            |           |           |           |          |              |           |  |  |
|  |  | 1             | 1        |               | _             | 4        | $\Box$    |          |          |           |            | _                            | 51       |                 |                   |          | 4             | _         | 4        | $\perp$   |               | ] [          |       | 101          |                 | $\perp$       |                | 4         | $\dashv$  | $\exists$ | _        | 1            | 4         |  |  |
|  |  | 3             | 1        | $\dashv$      | -             | -        | -         |          |          |           | H          | $\vdash$                     | 52<br>53 |                 | -                 | $\vdash$ |               | $\dashv$  | -+       | -         | -             | 1 }          |       | 102<br>103   | $\vdash$        | $\dashv$      |                | +         | $\dashv$  | ᆉ         | $\dashv$ | $\dashv$     | $\dashv$  |  |  |
|  |  | 4             | 1        |               |               |          |           |          |          |           |            |                              | 54       |                 |                   |          |               | $\Box$    |          |           | 1             | 1 [          |       | 104          |                 |               | 1              |           | 1         |           |          |              |           |  |  |
|  |  | 5             | 00       | $\dashv$      | -             |          | $\dashv$  |          |          |           | Н          | <u> </u>                     | 55<br>56 |                 |                   | $\dashv$ | -             | 4         | 4        | +         | +             | <b>{</b>     |       | 105<br>106   |                 | 4             |                | 4         | 4         | $\dashv$  |          | 4            | 4         |  |  |
|  |  | <u>6</u><br>7 | 0        | $\dashv$      | $\dashv$      | $\dashv$ |           |          |          |           | H          | -                            | 57       | -               | $\vdash$          |          | $\dashv$      | $\dashv$  | $\dashv$ | $\dashv$  | ╁             | 1 }          | _     | 107          | $\vdash$        | $\dashv$      | +              | ╁         | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$     | -         |  |  |
|  |  | 8             | 0        |               | $\Box$        | $\Box$   |           |          |          |           |            |                              | 58       | 1               |                   |          |               | $\Box$    | $\Box$   |           | 工             | 1 [          |       | 108          |                 | $\Box$        | ユ              |           | $\Box$    | $\exists$ | $\Box$   |              |           |  |  |
|  |  | 9<br>10       | =        |               | $\dashv$      | _        |           |          | _        |           |            | -                            | 59<br>60 |                 | Н                 | Н        | 4             | +         | +        | +         | +-            | ┨            |       | 109<br>110   | $\vdash$        | $\dashv$      | +              | +         | $\dashv$  | 4         | +        | 4            | 4         |  |  |
|  |  | 11            | =        |               | $\dashv$      | ᅥ        |           |          |          |           | $\dashv$   |                              | 61       |                 |                   | $\vdash$ | $\dashv$      | +         | $\dashv$ | +         |               | 1 }          |       | 111          |                 | $\dashv$      | $\dashv$       | +         | $\dashv$  | 7         | 十        | $\dashv$     | -         |  |  |
|  |  | 12            | =        |               |               |          |           |          |          |           |            |                              | 62       |                 |                   |          | $\Box$        | $\Box$    | 4        |           | $\top$        | ] [          |       | 112          |                 | $\Box$        |                | 1         | 4         | $\Box$    | 4        | $\downarrow$ | $\Box$    |  |  |
|  |  | 13<br>14      | =        |               | $\dashv$      | $\dashv$ |           | $\dashv$ |          |           | $\dashv$   | -                            | 63<br>64 |                 |                   |          | $\dashv$      | $\dashv$  | $\dashv$ |           | +             | ╂            |       | 113<br>114   | $\vdash$        | +             | +              | +         | $\dashv$  | -         | $\dashv$ | $\dashv$     | $\dashv$  |  |  |
|  |  | 15            | =        |               |               |          |           |          |          |           |            |                              | 65       |                 |                   |          |               |           |          |           |               | 1 1          |       | 115          |                 | $\exists$     | $\perp$        | $\dagger$ | $\dagger$ | $\dashv$  | $\dashv$ | $\dagger$    | $\exists$ |  |  |
|  |  | 16            | =        |               | $\Box$        |          |           |          |          |           | $\Box$     |                              | 66       |                 |                   |          | $\dashv$      | 4         | _        |           | Τ.            | ] [          |       | 116          |                 |               | _              | 1         | $\perp$   |           | $\Box$   | $\perp$      |           |  |  |
|  |  | 17<br>18      | =        | $\dashv$      | $\dashv$      | $\dashv$ | -         | _        |          |           | $\dashv$   | -                            | 67       |                 | Н                 |          | $\dashv$      | +         | +        | +         | +             | 1            |       | 117<br>118   | $\vdash$        | +             | +              | +         | +         | $\dashv$  | $\dashv$ | +            | $\dashv$  |  |  |
|  |  | 19            | =        |               | ╛             |          |           |          |          |           |            |                              | 69       |                 |                   |          |               |           |          |           |               | 1 [          |       | 119          |                 | ij            |                | 1         |           |           |          | $\exists$    |           |  |  |
|  |  | 20<br>21      | Н        | $\dashv$      | 4             | $\dashv$ | 4         | _        |          | _         |            | <u></u>                      | 70       |                 | Н                 | _        |               | 4         | 4        | +         | +-            | 1            |       | 120<br>121   | $\sqcup$        | -             | +              | +         | +         | 4         | _        | $\dashv$     | _         |  |  |
|  |  | 22            | Н        | $\exists$     | $\dashv$      | $\dashv$ | +         |          |          |           | $\dashv$   | -                            | 72       |                 | $\vdash$          |          | $\dashv$      | +         | +        | +         | +             | ┧┟           |       | 122          | $\vdash$        |               | +              | +         | +         | +         | +        | +            |           |  |  |
|  | •  | 23            |          |               |               |          |           |          |          |           |            |                              | 73       | ,               |                   |          |               | $\dashv$  |          |           |               | 1 [          | ·     | 123          |                 | $\Box$        |                |           | 1         | $\Box$    |          | $\perp$      |           |  |  |
|  |  | 24<br>25      | Н        |               | $\dashv$      | $\dashv$ |           |          |          |           | _          | -                            | 74       |                 |                   |          | -             | $\dashv$  | _        |           | +-            | ┨            |       | 124<br>125   | $\vdash$        | -             |                | +         | +         |           | 4        | +            | -         |  |  |
|  |  | 26            |          | $\exists$     | +             | $\dashv$ | $\dashv$  |          |          |           | $\dashv$   | -                            | 76       | -               |                   |          | +             | +         | +        | +         | +             | 1            |       | 126          |                 | +             | +              | +         | +         | +         | +        | $\dashv$     | ┪         |  |  |
|  |  | 27            |          |               |               |          |           |          |          |           |            |                              | 77       |                 |                   |          | $\Box$        | $\Box$    |          |           |               | ] [          |       | 127          |                 | $\Box$        | $\blacksquare$ | 7         | $\exists$ | $\Box$    | コ        | $\Box$       |           |  |  |
|  |  | 28<br>29      |          | $\Box$        | $\dashv$      | $\dashv$ | $\dashv$  | -        | $\dashv$ |           | _          |                              | 78       |                 |                   |          | $\dashv$      | +         | +        | +         | +             | ┨            |       | 128<br>129   | $\vdash$        | +             | +              | +         | +         | $\dashv$  | +        | +            | $\dashv$  |  |  |
|  |  | 30            |          |               | $\exists$     | $\neg$   |           |          |          |           |            |                              | 80       |                 |                   |          | 十             | $\dashv$  | $\dashv$ | $\top$    | $\dagger$     | 1            |       | 130          |                 | $\dashv$      | $\dashv$       | $\top$    | $\top$    | $\dashv$  | $\top$   | $\top$       | $\exists$ |  |  |
|  |  | 31            |          |               |               |          | _         |          |          |           |            | _                            | 81       |                 |                   | _        | 4             | 4         | _        | 4         | _             | ] [          |       | 131          |                 | _             | 4              | $\perp$   | _         | 4         | _        | _            | _         |  |  |
|  |  | 32<br>33      | Н        | $\dashv$      | $\dashv$      | -        | $\dashv$  |          | -        | _         |            | -                            | 82       |                 |                   |          | $\dashv$      | $\dashv$  | +        |           | +-            | ┨            | -     | 132<br>133   |                 |               |                | +         | +         | $\dashv$  | $\dashv$ | +            | $\dashv$  |  |  |
|  |  | 34            |          |               |               |          |           |          |          |           |            |                              | 84       |                 |                   |          |               |           |          |           |               | 1 [          |       | 134          |                 |               |                | 1         |           |           |          |              |           |  |  |
|  |  | 35<br>36      |          | $\dashv$      | 4             | $\dashv$ | 4         | -        |          |           |            | <u> </u>                     | 85       |                 |                   | $\dashv$ | $\dashv$      | 4         | 4        | +         | +             | 1            |       | 135          | -               | 4             | -              | +         | +         | 4         | 4        | -            | _         |  |  |
|  |  | 37            | Н        | $\dashv$      | $\dashv$      | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |           |            | $\vdash$                     | 87       |                 | Н                 | $\dashv$ | $\dashv$      | +         | $\dashv$ | +         | +             | 1            |       | 136<br>137   | H               | $\dashv$      | +              | +         | +         | $\dashv$  | +        | ╁            | -         |  |  |
|  |  | 38            |          |               |               |          |           |          |          |           |            |                              | 88       |                 |                   |          |               | 1         | 1        | 丁         | 工             | 1 [          |       | 138          |                 |               | 士              | 1         | I         |           |          |              |           |  |  |
|  |  | 39<br>40      | Н        |               | 4             | $\dashv$ | $\dashv$  | -        | $\dashv$ |           | $\Box$     | -                            | 90       |                 | H                 | $\dashv$ | +             | -         | 4        | +         | +             |              |       | 139<br>140   | H               | $\dashv$      | +              | +         | +         | $\dashv$  | -        | 4            | $\dashv$  |  |  |
|  |  | 41            | $\vdash$ |               | $\dashv$      |          | $\dashv$  | $\dashv$ | $\dashv$ |           | $\dashv$   | -                            | 91       |                 | H                 | $\dashv$ | $\dashv$      | $\dashv$  | $\dashv$ | +         | +             | 1            |       | 141          | $\vdash$        | $\dashv$      | +              | +         | +         | +         | $\dashv$ | +            | $\dashv$  |  |  |
|  |  | 42            |          | $\Box$        | $\Box$        | 耳        | $\Box$    |          |          |           |            |                              | 92       |                 |                   | $\Box$   | $\Box$        | $\dashv$  | $\Box$   | 1         | $\perp$       | ] [          |       | 142          |                 | $\Box$        | $\Box$         | 1         | $\Box$    | $\Box$    | $\Box$   | $\dashv$     | $\Box$    |  |  |
|  |  | 43<br>44      | Н        | $\dashv$      | +             | $\dashv$ | $\dashv$  | $\dashv$ | -        |           | $\dashv$   | -                            | 93       |                 | H                 |          | +             | +         | +        |           | +-            | ┨╏           |       | 143<br>144   | $\vdash \vdash$ | $\dashv$      | +              | +         | +         | $\dashv$  | +        | $\dashv$     | $\dashv$  |  |  |
|  |  | 45            |          |               | 力             |          |           |          |          |           |            |                              | 95       |                 |                   |          | $\exists$     | $\exists$ | 士        | 士         | $\pm$         | 1            |       | 145          |                 | 寸             | $\pm$          | _         | $\pm$     | +         | $\perp$  | $\exists$    | $\exists$ |  |  |
|  |  | 46            |          | $\neg$        | $\neg$        | $\dashv$ | $\exists$ | $\Box$   | $\Box$   |           | $\Box$     |                              | 96       |                 |                   | $\Box$   | $\exists$     | $\neg$    |          | 7         |               |              |       | 146          |                 | <b>긔</b>      | 7              | $\bot$    | Ţ         | 7         | $\dashv$ | $\bot$       | $\exists$ |  |  |
|  |  | 47<br>48      | H        | $\dashv$      | $\dashv$      | $\dashv$ | ᅱ         | -        | $\dashv$ |           | -          | $\vdash$                     | 97       |                 | H                 | $\dashv$ | $\dashv$      | $\dashv$  | $\dashv$ | +         | +             | <del> </del> |       | 147<br>148   | $\vdash$        | $\dashv$      | +              | +         | +         | $\dashv$  | +        | +            | $\dashv$  |  |  |
|  |  | <del></del>   | $\vdash$ | $\rightarrow$ | $\rightarrow$ |          |           |          | -        | $\vdash$  | $\vdash$   | $\vdash$                     | +        | $\overline{}$   | -                 |          | $\rightarrow$ |           | -+       | -         | $\rightarrow$ | 4 H          |       | - · · -      | ⊢               |               |                | -         | -         | -+        | -        | -            | _         |  |  |